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<120> Derivatives of the IL-2 receptor Gamma chain, their preparation and use

<130> 530

<150> 149217

<151> 2002-04-18

<150> 152183

<151> 2002-10-08

<160> 21

<170> PatentIn version 3.1

<210> 1

<211> 86

<212> PRT

<213> Homo sapiens

<400> 1

Glu Arg Thr Met Pro Arg Ile Pro Thr Leu Lys Asn Leu Glu Asp Leu  
1 5 10 15

Val Thr Glu Tyr His Gly Asn Phe Ser Ala Trp Ser Gly Val Ser Lys  
20 25 30

Gly Leu Ala Glu Ser Leu Gln Pro Asp Tyr Ser Glu Arg Leu Cys Leu  
35 40 45

Val Ser Glu Ile Pro Pro Lys Gly Gly Ala Leu Gly Glu Gly Pro Gly

68 210

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50 55 60

Ala Ser Pro Cys Asn Gln His Ser Pro Tyr Trp Ala Pro Pro Cys Tyr  
65 70 75 80

Thr Leu Lys Pro Glu Thr  
85

<210> 2

<211> 41

<212> PRT

<213> Homo sapiens

<400> 2

Leu Cys Leu Val Ser Glu Ile Pro Pro Lys Gly Gly Ala Leu Gly Glu  
1 5 10 15

Gly Pro Gly Ala Ser Pro Cys Asn Gln His Ser Pro Tyr Trp Ala Pro  
20 25 30

Pro Cys Tyr Thr Leu Lys Pro Glu Thr  
35 40

<210> 3

<211> 12

<212> PRT

<213> Homo sapiens

<400> 3

Trp Ala Pro Pro Cys Tyr Thr Leu Lys Pro Glu Thr  
1 5 10

<210> 4

<211> 39

<212> DNA

<213> Homo sapiens

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69 310  
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<213> Homo sapiens

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gactacagtg aacgactctg cctcgtcagt gagattcccc caaaaggagg ggcccttggg 180  
gaggggcctg gggcctcccc atgcaaccag catagccct actgggcccc cccatgttac 240  
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<211> 126

<212> DNA

<213> Homo sapiens

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tccccatgca accagcatag cccctactgg gccccccat gttacaccct aaagcctgaa 120  
acctga 126

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<212> DNA

<213> Homo sapiens

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<210> 8

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<212> DNA

<213> Homo sapiens

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caagggcccc tcctttgcg gcaatctcac tgacgag 37

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<211> 35

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<213> Homo sapiens

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gcccccctactg ggccggccgca tgttacaccc taaag 35

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<212> DNA

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gtcagtgaga ttcccccagc aggaggggccc cttggggag 39

<210> 12

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<212> DNA

<213> Homo sapiens

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ctccccaagg gcccctcctg ctggggaaat ctcactgac 39

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<212> DNA

<213> Homo sapiens

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ggaggggccc ttggggcggg gcctggggcc tcc 33

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ggaggcccca ggcccccggcc caagggccccc tcc

33

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<213> Homo sapiens

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cagcatagcc cctacgcggc ccccccattgt tac

33

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<212> DNA

<213> HOMO SAPIENS

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33

<210> 17

<211> 44

<212> PRT

<213> Homo sapiens

<400> 17

Trp Leu Glu Arg Thr Met Pro Arg Ile Pro Thr Leu Lys Asn Leu Glu  
1 5 10 15

Asp Leu Val Thr Glu Tyr His Gly Asn Phe Ser Ala Trp Ser Gly Val  
20 25 30

Ser Lys Gly Leu Ala Glu Ser Leu Gln Pro Asp Tyr  
35 40

<210> 18

<211> 81

72 610  
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<212> PRT

<213> Homo sapiens

<400> 18

His Arg Val Ser Ala Ala Glu Leu Gly Gly Lys Val Asn Arg Ala Leu  
1 5 10 15

Gln Gln Val Gly Gly Leu Lys Ser Pro Trp Arg Gly Glu Tyr Lys Glu  
20 25 30

Pro Arg His Pro Pro Pro Asn Gln Ala Asn Tyr His Gln Thr Leu His  
35 40 45

Ala Gln Pro Arg Glu Leu Ser Pro Arg Ala Pro Gly Pro Arg Pro Ala  
50 55 60

Glu Glu Thr Thr Gly Arg Ala Pro Lys Leu Gln Pro Pro Leu Pro Pro  
65 70 75 80

Glu

<210> 19

<211> 324

<212> PRT

<213> Homo sapiens

<400> 19

Pro Leu Thr Ala Gln Ala Ile Gln Glu Gly Leu Arg Lys Glu Pro Ile  
1 5 10 15

His Arg Val Ser Ala Ala Glu Leu Gly Gly Lys Val Asn Arg Ala Leu  
20 25 30

Gln Gln Val Gly Gly Leu Lys Ser Pro Trp Arg Gly Glu Tyr Lys Glu  
35 40 45

Pro Arg His Pro Pro Pro Asn Gln Ala Asn Tyr His Gln Thr Leu His  
50 55 60

Ala Gln Pro Arg Glu Leu Ser Pro Arg Ala Pro Gly Pro Arg Pro Ala  
65 70 75 80

Glu Glu Thr Thr Gly Arg Ala Pro Lys Leu Gln Pro Pro Leu Pro Pro  
85 90 95

Glu Pro Pro Glu Pro Asn Lys Ser Pro Pro Leu Thr Leu Ser Lys Glu  
100 105 110

Glu Ser Gly Met Trp Glu Pro Leu Pro Leu Ser Ser Leu Glu Pro Ala  
115 120 125

Pro Ala Arg Asn Pro Ser Ser Pro Glu Arg Lys Ala Thr Val Pro Glu  
130 135 140

Gln Glu Leu Gln Gln Leu Glu Ile Glu Leu Phe Leu Asn Ser Leu Ser  
145 150 155 160

Gln Pro Phe Ser Leu Glu Glu Gln Glu Ile Leu Ser Cys Leu Ser  
165 170 175

Ile Asp Ser Leu Ser Leu Ser Asp Asp Ser Glu Lys Asn Pro Ser Lys  
180 185 190

Ala Ser Gln Ser Ser Arg Asp Thr Leu Ser Ser Gly Val His Ser Trp  
195 200 205

Ser Ser Gln Ala Glu Ala Arg Ser Ser Ser Trp Asn Met Val Leu Ala  
210 215 220

Arg Gly Arg Pro Thr Asp Thr Pro Ser Tyr Phe Asn Gly Val Lys Val  
225 230 235 240

Gln Ile Gln Ser Leu Asn Gly Glu His Leu His Ile Arg Glu Phe His  
245 250 255

Arg Val Lys Val Gly Asp Ile Ala Thr Gly Ile Ser Ser Gln Ile Pro  
260 265 270

Ala Ala Ala Phe Ser Leu Val Thr Lys Asp Gly Gln Pro Val Arg Tyr  
275 280 285

Asp Met Glu Val Pro Asp Ser Gly Ile Asp Leu Gln Cys Thr Leu Ala  
290 295 300

Pro Asp Gly Ser Phe Ala Trp Ser Trp Arg Val Lys His Gly Gln Leu  
305 310 315 320

Glu Asn Arg Pro

<210> 20

<211> 357

<212> PRT

<213> Homo sapiens

&lt;400&gt; 20

Met Leu Lys Pro Ser Leu Pro Phe Thr Ser Leu Leu Phe Leu Gln Leu  
1 5 10 15Pro Leu Leu Gly Val Gly Leu Asn Thr Thr Ile Leu Thr Pro Asn Gly  
20 25 30Asn Glu Asp Thr Thr Ala Asp Phe Phe Leu Thr Thr Met Pro Thr Asp  
35 40 45Ser Leu Ser Val Ser Thr Leu Pro Leu Pro Glu Val Gln Cys Phe Val  
50 55 60Phe Asn Val Glu Tyr Met Asn Cys Thr Trp Asn Ser Ser Ser Glu Pro  
65 70 75 80Gln Pro Thr Asn Leu Thr Leu His Tyr Trp Tyr Lys Asn Ser Asp Asn  
85 90 95Asp Lys Val Gln Lys Cys Ser His Tyr Leu Phe Ser Glu Glu Ile Thr  
100 105 110Ser Gly Cys Gln Leu Gln Lys Glu Ile His Leu Tyr Gln Thr Phe  
115 120 125Val Val Gln Leu Gln Asp Pro Arg Glu Pro Arg Arg Gln Ala Thr Gln  
130 135 140Met Leu Lys Leu Gln Asn Leu Val Ile Pro Trp Ala Pro Glu Asn Leu  
145 150 155 160Thr Leu His Lys Leu Ser Glu Ser Gln Leu Glu Leu Asn Trp Asn Asn  
165 170 175Arg Phe Leu Asn His Cys Leu Glu His Leu Val Gln Tyr Arg Thr Asp  
180 185 190Trp Asp His Ser Trp Thr Glu Gln Ser Val Asp Tyr Arg His Lys Phe  
195 200 205Ser Leu Pro Ser Val Asp Gly Gln Lys Arg Tyr Thr Phe Arg Val Arg  
210 215 220Ser Arg Phe Asn Pro Leu Cys Gly Ser Ala Gln His Trp Ser Glu Trp  
225 230 235 240Ser His Pro Ile His Trp Gly Ser Asn Thr Ser Lys Glu Asn Pro Phe  
245 250 255

75 Q10

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Leu Phe Ala Leu Glu Ala Val Val Ile Ser Val Gly Ser Met Gly Leu  
260 265 270

Ile Ile Ser Leu Leu Cys Val Tyr Phe Trp Leu Glu Arg Thr Met Pro  
275 280 285

Arg Ile Pro Thr Leu Lys Asn Leu Glu Asp Leu Val Thr Glu Tyr His  
290 295 300

Gly Asn Phe Ser Ala Trp Ser Gly Val Ser Lys Gly Leu Ala Glu Ser  
305 310 315 320

Leu Gln Pro Asp Tyr Ser Glu Arg Leu Cys Leu Val Ser Glu Ile Pro  
325 330 335

Pro Lys Gly Gly Ala Leu Gly Glu Gly Pro Gly Ala Ser Pro Cys Asn  
340 345 350

Gln His Ser Pro Tyr  
355

<210> 21

<211> 341

<212> PRT

<213> Homo sapiens

<400> 21

Met Leu Lys Pro Ser Leu Pro Phe Thr Ser Leu Leu Phe Leu Gln Leu  
1 5 10 15

Pro Leu Leu Gly Val Gly Leu Asn Thr Thr Ile Leu Thr Pro Asn Gly  
20 25 30

Asn Glu Asp Thr Thr Ala Asp Phe Phe Leu Thr Thr Met Pro Thr Asp  
35 40 45

Ser Leu Ser Val Ser Thr Leu Pro Leu Pro Glu Val Gln Cys Phe Val  
50 55 60

Phe Asn Val Glu Tyr Met Asn Cys Thr Trp Asn Ser Ser Ser Glu Pro  
65 70 75 80

Gln Pro Thr Asn Leu Thr Leu His Tyr Trp Tyr Lys Asn Ser Asp Asn  
85 90 95

Asp Lys Val Gln Lys Cys Ser His Tyr Leu Phe Ser Glu Glu Ile Thr  
100 105 110

Ser Gly Cys Gln Leu Gln Lys Lys Glu Ile His Leu Tyr Gln Thr Phe  
115 120 125

Val Val Gln Leu Gln Asp Pro Arg Glu Pro Arg Arg Gln Ala Thr Gln  
130 135 140

Met Leu Lys Leu Gln Asn Leu Val Ile Pro Trp Ala Pro Glu Asn Leu  
145 150 155 160

Thr Leu His Lys Leu Ser Glu Ser Gln Leu Glu Leu Asn Trp Asn Asn  
165 170 175

Arg Phe Leu Asn His Cys Leu Glu His Leu Val Gln Tyr Arg Thr Asp  
180 185 190

Trp Asp His Ser Trp Thr Glu Gln Ser Val Asp Tyr Arg His Lys Phe  
195 200 205

Ser Leu Pro Ser Val Asp Gly Gln Lys Arg Tyr Thr Phe Arg Val Arg  
210 215 220

Ser Arg Phe Asn Pro Leu Cys Gly Ser Ala Gln His Trp Ser Glu Trp  
225 230 235 240

Ser His Pro Ile His Trp Gly Ser Asn Thr Ser Lys Glu Asn Pro Phe  
245 250 255

Leu Phe Ala Leu Glu Ala Val Val Ile Ser Val Gly Ser Met Gly Leu  
260 265 270

Ile Ile Ser Leu Leu Cys Val Tyr Phe Trp Leu Glu Arg Thr Met Pro  
275 280 285

Arg Ile Pro Thr Leu Lys Asn Leu Glu Asp Leu Val Thr Glu Tyr His  
290 295 300

Gly Asn Phe Ser Ala Trp Ser Gly Val Ser Lys Gly Leu Ala Glu Ser  
305 310 315 320

Leu Gln Pro Asp Tyr Ser Glu Arg Leu Cys Leu Val Ser Glu Ile Pro  
325 330 335

Pro Lys Gly Gly Ala  
340